
NASA-10605 (March 2003)
NATIONAL AERONAUTICS NASA
AND SPACE ADMINISTRATION Superseding NASA-10605
(September 1999)

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DIVISION 10 - SPECIALTIES

SECTION 10605

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03/03

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SECTION 10605

WIRE MESH PARTITIONS
03/03

NOTE: Delete, revise, or add to the text in this section to cover project requirements. Notes are for designer information and will not appear in the final project specification.

This section covers steel-wire mesh partitions, doors, and hardware.

Associated work is covered in Section 02825, "Chain Link Fences and Gates."

Drawings must include dimensions and locations for partitions.

PART 1 GENERAL

1.1 REFERENCES

Not Used

1.2 SUBMITTALS

NOTE: Review submittal description (SD) definitions in Section 01330, "Submittal Procedures," and edit the following list to reflect only the submittals required for the project. Submittals should be kept to the minimum required for adequate quality control. Include a columnar list of appropriate products and tests beneath each submittal description.

The following shall be submitted in accordance with Section 01330, "Submittal Procedures," in sufficient detail to show full compliance with the specification:

SD-02 Shop Drawings

Fabrication Drawings shall be submitted for mesh partitions in accordance with paragraph entitled, "General," of this section.

Installation drawings shall be submitted for the following items in accordance with the paragraph entitled, "Installation," of this

section.

- Standard Partitions
- Heavy-Duty Partitions
- Sheet Metal Base Partitions
- Bracing
- Sliding Doors
- Hinged Doors
- Miscellaneous Items

SD-03 Product Data

Manufacturer's catalog data shall be submitted for the following items:

- Standard Partitions
- Heavy-Duty Partitions
- Sheet Metal Base Partitions
- Bracing
- Sliding Doors
- Hinged Doors
- Miscellaneous Items

SD-04 Samples

Samples shall be submitted in accordance with paragraph entitled, "General," of this section.

- Frames
- Mesh
- Accessory
- Fastening Device

SD-07 Certificates

Certificates shall be submitted for mesh partitions in accordance with paragraph entitled, "General," of this section.

1.3 DELIVERY, HANDLING, AND STORAGE

Materials shall be protected from weather, soil, and damage during delivery, storage, and construction.

Materials shall be delivered in original packages, containers, or bundles bearing the brand name and the name of the material.

1.4 FIELD MEASUREMENTS

Field measurements shall be taken prior to the preparation of drawings and fabrication to ensure proper fits.

PART 2 PRODUCTS

2.1 GENERAL

Fabrication Drawings shall be submitted for mesh partitions consisting of fabrication and assembly details to be performed in the factory.

Certificates showing mesh partitions will be free of defects in materials,

fabrication, finish, and installation and that they will remain so for a period of not less than [_____] years after completion.

Three samples of a Frames, not less than 12-inches 300 millimeter square, shall be submitted.

Three samples of a Mesh, not less than 12-inches 300 millimeter square, shall be submitted.

Three of each type of Accessory shall be submitted.

Three of each type of Fastening Device shall be submitted.

Approved full-sized samples may be installed in the work if they are properly identified.

Mesh partitions and components shall be of the size, type, and layout indicated and shall be the standard product of a manufacturer regularly engaged in the production of this type of equipment.

Partitions shall be a series of standard, modular, interchangeable units designed to permit interchange and rearrangement of panels, doors, gates, service windows, and corners in any combination with no loss of component parts and shall be readily disassembled, entirely or in part, for relocation.

Panels, where indicated, shall be:

[Steel-wire mesh]

[Steel-wire mesh and sheet metal base panel]

Height and width of panels shall be as indicated.

Filler panels shall be the manufacturer's standard sizes, matching the adjacent partition, to fill out runs where standard full-width panel cannot be used.

2.2 STANDARD PARTITIONS, UP TO 10 FEET 3048 MILLIMETER

Wire shall be 10-gage 2.5 millimeter steel woven into a 1-1/2-inch 40 millimeter diamond Mesh, clinched to frames.

Vertical Frames shall be 1-1/4- by 5/8-inch 32 by 16 millimeter steel C-channels with 1/4 inch 6M (1/4 inch) bolt holes 12 inches 300 millimeter on center.

Horizontal frames shall be 1- by 1/2-inch 25 by 13 millimeter steel channels.

Joints shall be mortised and tenoned.

Center reinforcing bar shall be 1- by 1/2 by 1/8-inch 25 by 13 by 3 millimeter steel channel tenoned to the side frames with wires passing through the center bar.

Top reinforcement or cap shall be a continuous 2-1/4- by 1-inch 56 by 25 millimeter steel channel with holes for 1/4-inch 6M (1/4-inch) U-bolts 2 feet 4 inches 700 millimeter on center, maximum.

Corner posts shall be 1-1/4- by 1-1/4-inch 32 by 32 millimeter steel angles with 1/4-inch 6M (1/4-inch) bolt holes to match partition.

Floor sockets shall be 2-1/2 inches 63 millimeter high, of high-grade cast iron, and with a setscrew adjustment.

2.3 STANDARD PARTITIONS, 10 TO 20 FEET 3048 TO 6096 MILLIMETER

[Standard partitions shall be as specified.]

Flat bar posts shall have 1/4-inch 6M (1/4-inch) bolt holes to match the partition and shall be [_____] by [_____].

2.4 HEAVY-DUTY PARTITIONS, 7 TO 20 FEET 2134 TO 6096 MILLIMETER

Wire shall be 6-gage 4 millimeter steel woven into 2-inch 50 millimeter diamond mesh and clinched into frames.

Frames shall consist of 1-1/2- by 3/4-inch 40 by 19 millimeter steel channel frames. Vertical frames shall have 3/8-inch 10M (3/8-inch) bolt holes 18 inches 460 millimeter on center. Joints shall be mortised and tenoned.

Center reinforcing bar shall consist of 1-1/2- by 3/4-inch 38 by 19 millimeter channel tenoned to side frames. Wires shall pass through the center bar.

Flat bar posts shall have 3/8-inch 10M (3/8-inch) bolt holes to match partition and shall be [_____] by [_____].

Top reinforcement or cap shall be a continuous 3-inch 4.1-pound per foot 75 millimeter 60 newton per meter steel channel with holes for 5/16-inch 8M (5/16-inch) U-bolts 2 feet 4 inches 700 millimeter on center, maximum.

Corner posts shall be 1-3/4- by 1-3/4-inch 44 by 44 millimeter steel angles with 3/8-inch 10M (3/8-inch) bolt holes to match the partition.

Floor sockets shall be 2-1/2 inches 63 millimeter high, of high-grade cast iron, and with a setscrew adjustment.

2.5 SHEET METAL BASE PARTITIONS

Sheet metal base partitions, where indicated, shall be as specified except that the top of the lower panel shall be approximately 3 feet 6 inches 1070 millimeter above the floor line and constructed of 16-gage 1.6 millimeter formed steel sheet bolted to a frame.

2.6 BRACING

Bracing of unsupported partitions shall be designed and installed at intervals not exceeding 15 feet 4600 millimeter and where indicated or required to provide lateral stability.

Bracing shall be provided by extending the structural post or equivalent member and securing it to the overhead construction.

2.7 SLIDING DOORS

Sliding doors shall be the same construction as adjacent panels and frames

shall be 1-1/2- by 3/4-inch 40 by 90 millimeter steel channel with 1-1/2- by 1/8-inch 40 by 3 millimeter steel flat-bar cover all around.

[Sliding doors shall have two [2-wheel] [4-wheel] roller-bearing hangers.]

[Sliding doors shall have steel box track and bottom-guide channels.]

2.8 HINGED DOORS

Hinged doors shall be of same construction as adjacent panels and frames shall be 1-1/4- by 1/2-inch 32 by 13 millimeter steel channel with 1-1/4- by 1/8-inch 32 by 3 millimeter steel flat-bar cover on three sides and 1-3/8-by 3/4- by 1/8-inch 34 by 19 by 3 millimeter steel angle riveted to the lock side.

Doors shall have 1-1/2 pairs of ball-bearing butt hinges riveted to both the doors and the jambs.

2.9 MISCELLANEOUS ITEMS

Service windows, shelves, dutch doors, counters, and other items as required shall be the manufacturer's standard. Type and layout shall be as indicated.

Hardware shall be the manufacturer's standard, as approved.

2.10 FINISH

Finish shall be:

[Manufacturer's standard shop coat]

[Manufacturer's black enamel]

[Manufacturer's hot-dipped galvanized]

[Manufacturer's plastic finish (vinyl-clad wire, thermoplastic or thermoset polyester resins)]

PART 3 EXECUTION

3.1 INSTALLATION

Partitions shall be anchored, plumb, level, and true to line with hardware adjusted for proper operation. Installation shall be in accordance with the manufacturer's recommendations and printed instructions.

3.2 ACCEPTANCE PROVISIONS

3.2.1 Repairing

Damaged and unacceptable portions of the completed work shall be removed and replaced with new work at no additional cost to the Government.

3.2.2 Cleaning

Surfaces of the work, and adjacent surfaces soiled as a result of the work, shall be cleaned in an approved manner. Equipment, surplus materials, and rubbish from the work shall be removed from the site.

-- End of Section --